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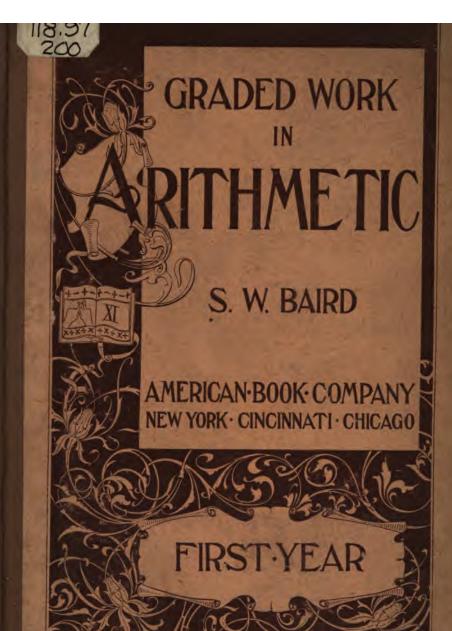
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## Salem School Board.

The Library Committee shall divide the books and other articles belonging to the Library into three classes, namely,

articles belonging to the Library into three classes, namely, (a) those which are not to be removed from the building; (b) those which may be taken only by written permission of three members of the committee; (c) those which may circulate under the following rules.

Members shall be entitled to take from the Library two follo or quarto volumes, or four volumes of lesser fold, upon having them recorded, and promising to make good any damage they sustain, while in their possession, and to replace the same if lost, or pay a sum fixed by the Library Committee.

No person shall lend any book belonging to the Institute.

No person shall lend any book belonging to the Institute, excepting to a member, under a penalty of one dollar for each offence.

The Library Committee may allow members to take more than the allotted number of books upon a written applica-

No person shall detain any book longer than four weeks from the Library, if notified that the same is wanted by another member, under a penalty of five cents per day, and no volume shall be detained longer than three months at one time under the same penalty.

The Librarian shall have power by order of the Library Committee to call in any volume after it has been retained

by a member for ten days.
On or before April fifteenth, all books shall be returned to the Library, and a penalty of five cents per day shall be imposed for each volume detained.

No book shall be allowed to circulate until one month after its receipt.

ay 15,1903.

HARVA:



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### GRADED WORK

0

IN

# ARITHMETIC

BY

### S. W. BAIRD

PRINCIPAL FRANKLIN GRAMMAR SCHOOL, WILKESBARRE, PA.

### FIRST YEAR

NUMBERS FROM 1 TO 20

NEW YORK .; CINCINNATI .: CHICAGO AMERICAN BOOK COMPANY Educ T 118. 200 latyear

MARYARD COLERATE SITE of GIFT COLERANGE ARTHUR TANUALY LU.

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AMERICAN BOOK COMPANY.

GRADED WORK IN ARITH. I.

W. P. 1

#### NOTE

THE lessons in this book are on numbers from 1 to 20, and are designed to cover the first year's work in arithmetic, although some classes will undoubtedly complete the exercises in less than one year, and others may require more time.

The fundamental operations—addition, subtraction, multiplication, and division—and simple fractions are introduced in connection with each number. There are frequent reviews, many drills, and a combination of slate and oral work. The problems are simple and practical.

Pictures, suggestions for object lessons, and other devices calculated to interest the pupil, are presented; and the illustrations, type, and arrangement of matter have been selected with a view to render the book attractive to young children.

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		·		
			·	!
				!



How many girls do you see in the picture? How many girls are on the bench? How many are standing?

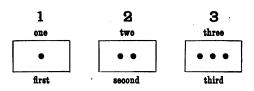
How many hens do you see in the picture? How many eggs do you see in the nest?

If each of the two girls on the bench takes an egg out of the nest, how many eggs will be left in the nest?

If you take two eggs from three eggs, how many eggs will be left?

Now, if each hen lays an egg in the nest, how many eggs will there be in the nest then?

One egg and two eggs are how many eggs?



ORAL WORK

How many dots do you see on the first card? How many dots are on the second card? How many dots are on the third card?

Count the dots on the first and second cards, and tell me how many are on both

together.

One dot and two dots are how many dots?

How many more dots are there on the second card than on the first card?

How many more dots are there on the third card than on the first?

Two books and one book are how many books? If Mary has three books and gives one to her sister, how many books has Mary left?

How many eggs can you buy for three cents, if one egg costs one cent?

There are three plums on a plate. Now, if two girls take one plum each, how many plums will be left on the plate?



How many boys do you see in the picture? How many oranges are on the plate on the table?

How many legs has the table?

How many legs has the chair?

If one boy eats an orange, how many oranges will be left on the plate?

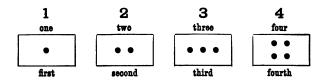
If you take one orange from four oranges, how many oranges will be left?

If two boys leave the table, how many boys will be left at the table?

How many eyes have two horses?

From four apples take away two apples, and how many apples will be left?

How many balls are two balls and two balls?



How many dots do you see on the first card? I see ——— dot on the first card.

How many dots do you see on the second card?

I see ——— dots on the second card.

How many dots do you see on the third card?

I see —— dots on the third card.

How many dots do you see on the fourth card?

I see —— dots on the fourth card.

How many dots are three dots and one dot?

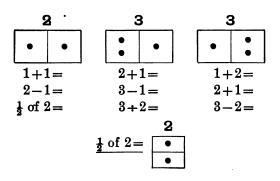
Three dots and one dot are —— dots.

Draw a card and make four dots on it.

Now, rub out two dots and tell me how many dots are left on the card.

If you have two cents and spend two of them for candy, how many cents have you left? Willie's mother gave him three cookies.

After he ate one how many cookies had he left?



- 1 dot and 1 dot are how many dots?
- 2 dots less 1 dot are how many dots?
- 2 dots and 1 dot are how many dots?
- 3 dots less 1 dot are how many dots?
- 3 dots less 2 dots are how many dots?
- There are 2 mice in one trap and 1 mouse in another trap. How many mice are there in both traps?
- Anna has 2 dimples in her cheeks, and 1 dimple in her chin. How many dimples has Anna?
- I see 2 birds in a tree and 1 bird on the fence. How many birds do I see?
- Mary had 3 cents and paid 2 cents for a pencil. How many cents had she left?

- 3 dots and 1 dot are how many dots?
- 2 dots and 2 dots are how many dots?
- 2 times 2 dots are how many dots?
- 4 dots less 2 dots are how many dots?
- ½ of 4 dots is —— dots.
- 2 dots and —— are 4 dots.
- 4 dots less —— are 2 dots.
- 4 dots are how many more dots than 3 dots?

#### SLATE WORK

$$2+1=$$
  $3+1=$   $4-3=$   $3-1=$   $2+2=$   $4 \div 2=$   $3 \div 2=$   $4-2=$   $4 \div 3=$ 



ORAL WORK

How many boys do you see in the picture? How many girls do you see?

Three boys and two girls are how many children?

How many books is the largest boy carrying? How many books has the next boy?

How many books has the smallest boy?

Three books and two books are how many books?

How many books have the two girls together? Four books and one book are how many books?

How many more books has the larger girl than the smaller?

Four books less one book are how many books?

5	5		
•	•••		
4+1=	3+2=		
1+4=	2 + 3 =		
5-4=	5 - 3 =		
$5 \div 4 =$	$5 \div 3 =$		

- 4 dots and 1 dot are how many dots?
- 5 dots less 4 dots are how many dots?
- . 3 dots and 2 dots are how many dots?
  - 5 dots less 3 dots are how many dots?
  - 5 dots are more dots than 2 dots?
  - How many 4's are there in 5, and how many are left over?  $5 \div 4 = 1$ , and 1 left over.
  - How many 3's are there in 5, and how many are left over?  $5 \div 3 = 1$ , and 2 left over.
- If you have a three-cent piece and a two-cent piece, how much money have you?
- If I have a five-cent piece and you have a two-cent piece, how much more money have I than you?
- 5 cents less 2 cents are —— cents.

1+2=	3+2=	2+?=4	4-2 =
3+1=	4-1=	5-?=2	5-4 =
2+3=	5-2 =	$4\div?=2$	$2 \times 2 =$
4+1=	4 - 3 =	3+?=5	$\frac{1}{2}$ of $4 =$
5-1 =	5 - 3 =	4-?=3	$\frac{1}{2}$ of $2=$

#### ORAL WORK

Hold up your right hand; your left hand.

How many fingers have you on each hand?

How many fingers have you on each hand, not counting the thumbs?

How many joints has the thumb?

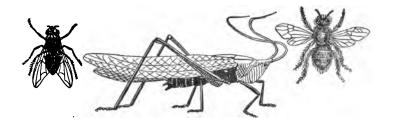
How many joints has each of the other fingers?

How many joints have your thumb and little finger together?

If I buy 2 two-cent stamps with a five-cent piece, how much money will I have left?

How many 2's are there in 5, and how many are left over?

$$5 \div 2 = --$$
, and  $--$  left over.



How many legs has a grasshopper?

How many legs has a fly?

How many legs has a bee?

A fly has two wings. A bee has four wings.

How many wings have 2 flies?

Two things make a pair. Two shoes are a pair. Two gloves are a pair. Two stockings are a pair.

How many pairs of legs has a grasshopper?

How many pairs of legs has a bee?

How many pairs of legs has a fly?

How many pairs of wings has a bee?

How many pairs of wings has a fly?

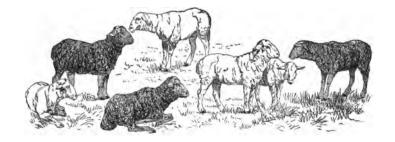
If a work bee loses two of its wings, how many will it have left?

- 6 dots less 2 dots are how many dots?
- 3 dots and 3 dots are how many dots?
- 2 times 3 dots are how many dots?
- $\frac{1}{2}$  of 6 dots is how many dots?
- 6 dots are how many more dots than 4 dots?
- 6 dots less 4 dots are how many dots?
- How many 5's are there in 6, and how many are left over?  $6 \div 5 = ---$ , and --- over.
- How many 4's are there in 6, and how many are left over?  $6 \div 4 = ---$ , and ---- over.
- How many 3's are there in 6?
- If you divide 6 apples equally between two girls, how many apples will each girl get?

4+2=	5-3=	$4 \div 2 =$	5 - ? = 2
3+2=	6 - 3 =	$6 \div 2 =$	3+?=6
2+2=	4-2=	$6 \div 3 =$	2+?=6
$2 \times 2 =$	3 + 3 =	6 - ? = 3	5 - ? = 1
4+1=	$2 \times 3 =$	4+?=6	6 - ? = 4

#### ORAL WORK

- 2 roses and 3 roses are roses.
- 3 tops and 3 tops are tops.
- 4 dolls and —— dolls are 6 dolls.
- 5 birds less 2 birds are birds.
- 6 hats less —— hats are 2 hats.
- 5 boys less —— boys are 2 boys.
- 3 times —— flags are 6 flags.
- How many two-cent stamps can you buy for 6 cents?
- How many shoes are there in three pairs of shoes?
- Mary had 6 lilies and gave  $\frac{1}{2}$  of them to me. How many did she give me?
- Lulu has 6 stockings. How many pairs of stockings has she?



How many white sheep do you see in the picture?

How many black sheep do you see?

Four sheep and three sheep are how many sheep?

How many more white sheep are there than black sheep?

Four sheep less three sheep are how many sheep?

How many sheep are standing?

How many are lying down?

Five sheep and two sheep are how many?

Seven sheep less two sheep are how many?

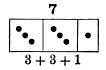
How many more sheep are standing than there are lying down?

Five sheep less two sheep are how many sheep?

GRAD. ARITH. I. -2

7	7	7	
•••	* :	•••	
6 + 1 =	5+2=	4 + 3 =	
1 + 6 =	2 + 5 =	3 + 4 =	
7 - 1 =	7 - 2 =	7 - 3 =	
7 - 6 =	7 - 5 =	7 - 4 =	
$7 \div 6 =$	$7 \div 5 =$	$7 \div 4 =$	

- 5 dots and 2 dots are how many dots?
- 7 dots less 2 dots are how many dots?
- 4 dots and 3 dots are how many dots?
- 7 dots less 4 dots are how many dots?
- 3 apples and 4 apples are how many apples?
- How many 6's are there in 7, and how many are left over?  $7 \div 6 = ---$ , and ---- left over.
- How many 5's are there in 7, and how many are left over?  $7 \div 5 = ---$ , and --- left over.
- How many 3's are there in 7, and how many are left over?

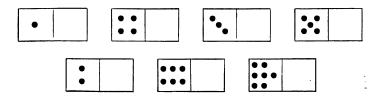


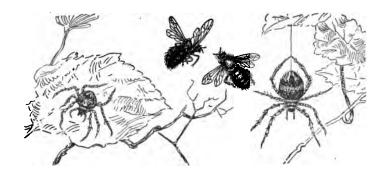
$$3+2=$$
  $7-3=$   $2+5=$   $7-2=$   $5+1=$   $5-2=$   $3+4=$   $3+?=5$   $5-3=$   $4+3=$   $5-4=$   $5+?=7$   $6-3=$   $6-4=$   $2+3=$   $7-?=4$   $5+2=$   $4+2=$   $7-5=$   $6-?=3$ 

### Copy and finish:

- 5 dots less 3 dots are —— dots.
- 7 dots less —— dots are 4 dots.
- 4 horses and —— horses are 7 horses.
- 5 fingers and —— fingers are 7 fingers.
- 2 geese and 4 geese are —— geese.
- 2 baskets and —— baskets are 5 baskets.
- 6 clocks less 2 clocks are —— clocks.
- 6 cups less 4 cups are —— cups.
- 7 blocks less blocks are 2 blocks.

Copy, and fill in dots enough to make seven in each card:





How many spiders do you see in the picture?

How many bees do you see?

How many legs has each spider?

How many pairs of legs has each spider?

How many pairs of legs have both spiders together?

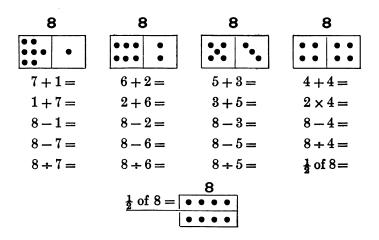
How many pairs of wings has each bee?

How many pairs of wings have both bees together?

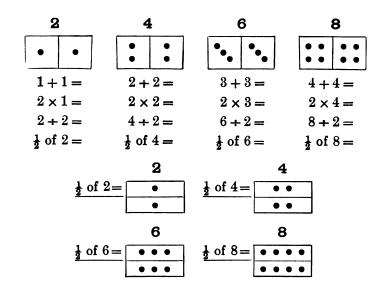
How many pairs of legs have both bees?

How many more pairs of legs has a spider than a bee?

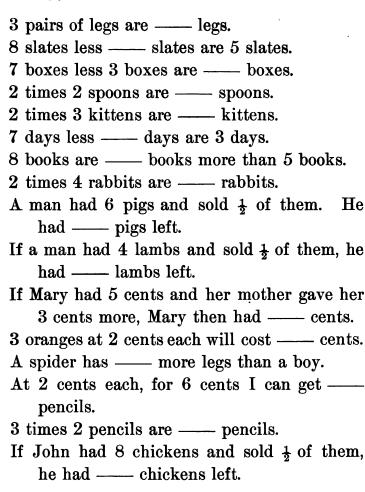
How many less legs has a fly than a spider?

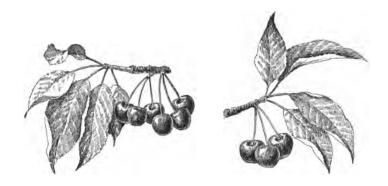


6 dots and 2 dots are how many dots?
8 dots less 2 dots are how many dots?
5 dots and 3 dots are how many dots?
8 dots less 3 dots are how many dots?
4 dots and 4 dots are how many dots?
2 times 4 dots are how many dots?
1 of 8 dots are how many dots?
How many 7's are there in 8, and how many are left over? 8 ÷ 7 = ——, and —— over.
How many 6's are there in 8, and how many are left over? 8 ÷ 6 = ——, and —— over.
8 ÷ 5 = ——, and —— over.



### Copy and finish:





How many cherries do you see in the picture? How many are there in the larger bunch? How many are there in the smaller bunch? Six cherries and three cherries are how many cherries?

Nine cherries less three cherries are how many cherries?

How many leaves are there on the larger bunch of cherries?

How many are there on the smaller bunch? Five leaves and four leaves are how many leaves?

Nine leaves less four leaves are how many leaves?

9 9 9 9 9 9 
$$8+1=$$
  $7+2=$   $6+3=$   $5+4=$   $1+8=$   $2+7=$   $3+6=$   $4+5=$   $9-1=$   $9-2=$   $9-3=$   $9-4=$   $9+8=$   $9+7=$   $9+6=$   $9+5=$ 

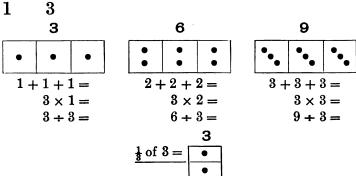
- 7 dots and 2 dots are how many dots?
- 9 dots less 2 dots are how many dots?
- 3 dots and 6 dots are how many dots?
- 9 dots less 3 dots are how many dots?
- 4 dots and 5 dots are how many dots?
- 6 beans and 3 beans are how many beans?
- 9 plums less 6 plums are how many plums?
- How many 8's are there in 9, and how many are left over?  $9 \div 8 = ---$ , and --- left over.
- How many 7's are there in 9, and how many are left over?  $9 \div 7 = ---$ , and --- left over.
  - $9 \div 6 =$  and  $\longrightarrow$  left over.
  - $9 \div 5 =$  —, and left over.

$$3+5=$$
  $5+4=$   $2+5=$   $3+2=$   $4+3=$   $8-5=$   $1+7=$   $8\div 4=$   $6+3=$   $3+6=$   $2+7=$   $6\div 2=$   $7-4=$   $8-3=$   $8-4=$   $8\div 5=$   $6-3=$   $7-5=$   $1+8=$   $7\div 4=$ 

### Copy and add:

### Copy and find the difference:

4	<b>5</b>	7	4	6	7	7	8	9
3	$rac{2}{3}$	3	2	4	3	<u>5</u>	<u>5</u>	3
$\bar{1}$	$\overline{3}$	_				_	_	

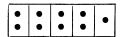


In the same way show:

$$\frac{1}{3}$$
 of 6  $\frac{1}{3}$  of 9

Copy and finish:

- At 1 cent each, 4 cakes will cost —— cents more than 2 cakes.
- If a lady divides 6 cherries equally among 3 boys, each boy will get —— cherries.
- If 9 blocks are divided into 3 equal piles, in each pile there will be —— blocks.
- If Ella had 9 cherries and gave 5 of them to Charlie, she had left —— cherries.
- Write 9 dots on your slate in this way:



- Now tell me how many 2's there are in 9, and how many there are left over.
- 2 and 2 and 2 and 1 are —
- There are —— twos in 9, and —— left over.
- How many 4's are there in 9, and how many are left over?  $9 \div 4 = ----$ , and ----- left over.
- If Grace had 6 roses and gave  $\frac{1}{3}$  of them to Tom, she had left —— roses.



What is the little girl in the picture doing? How many hens do you see in the picture?

How many chicks has the first hen?

How many has the second hen?

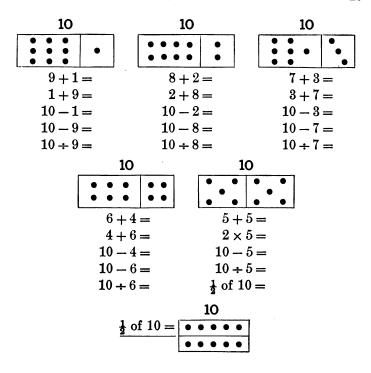
Five chickens and three chickens are how many chickens?

Now count the chickens and the hens, and tell me how many fowl there are in all.

Eight chickens and the two hens are how many chickens?

Ten chickens less two chickens are how many chickens?

If two of the ten chickens should die, how many chickens would be left?



9 dots and 1 dot are how many dots?
8 dots and 2 dots are how many dots?
10 dots less 4 dots are how many? 10 less 5?
2 times 5 dots are how many dots?
½ of 10 dots are how many dots?
How many 9's are there in 10, and how many are left over? how many 8's?

7 + 2 =	4+5=	5 + 5 =	4+2=
1+8=	8 - 5 =	9 - 3 =	4+3=
9 - 4 =	6+4=	10 - 4 =	5+2=
3+6=	3 + 5 =	7 - 2 =	2+7=
7 + 3 =	9 - 6 =	2+8=	6+3=
2+2=	3 + 3 =	4 + 4 =	5+5=
$2+2=$ $2\times 2=$	$3+3=$ $2\times 3=$	$4+4=2\times4=$	$5+5=2\times 5=$
•	•	•	•
$2 \times 2 =$	$2 \times 3 =$	$2 \times 4 =$	$2 \times 5 =$
$2 \times 2 = 4 - 2 =$	$ 2 \times 3 = \\ 6 - 3 =  $	$2 \times 4 = 8 - 4 =$	$ 2 \times 5 = 10 - 5 = $

2+2+2+1

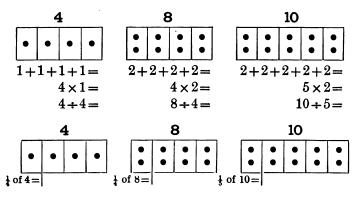
How many 2's are there

There are 3 twos in 7, and 1 left over.

### In the same way show:

How many 4's there are in 7. How many 3's there are in 7. How many 3's there are in 8. How many 2's there are in 8. How many 2's there are in 9. How many 3's there are in 9. How many 3's there are in 10.

in 7?



### Copy and add:

2	1	3	5	4	<b>5</b>	7
	4					
3	$\frac{2}{2}$	4	$\frac{2}{2}$	$\underline{2}$	1	1

# Add at sight:

2 3	$\frac{4}{1}$	$\frac{2}{4}$	$\frac{4}{3}$	$\frac{8}{1}$	<b>2</b> <b>5</b>	$\frac{4}{5}$	5 3 -	$\begin{array}{c} 6 \\ 3 \\ - \end{array}$
2	7	3	5	9	4	<b>2</b>	5 5	8
7	3	6	<b>2</b>	1	6	6	5	2

# Subtract at sight:

4 2 -	$\frac{5}{2}$	$\frac{6}{1}$	$\frac{7}{2}$	$\frac{7}{4}$	$\frac{6}{5}$	$\frac{6}{3}$	9 8 —	9 1 -
8	7	10	8	10	8	10	5	10
4	5	9	5	7	<b>2</b>	3	1	5

# Read at sight:

4 and $3$ are —	<b>2</b> and $5$ are $$
3 and 4 are —	10 less 7 are —
7 and 2 are —	9 less 6 are —
7 less 5 are —	$\frac{1}{4}$ of 8 is —
2 and 8 are —	$\frac{1}{3}$ of 9 is —
9 less 4 are —	$\frac{1}{2}$ of 10 is —
8 less 3 are	$\frac{1}{5}$ of 10 is —

In 7 there are three 2's, and 1 left over.
In 9 there are —— 4's, and —— left over.
In 10 there are —— 3's, and —— left over.
In 10 there are —— 2's, and —— left over.
4 apples and 5 apples are — apples.
8 peaches are — more peaches than 3
peaches.
If Frank caught 4 fish and Robert caught 6,
they both caught —— fish.
If there are 4 windows in one schoolroom
and 5 in another, there are in both rooms
—— windows.
If there are 3 chairs in one room and 7 in
another, there are —— chairs in both
rooms.
3 times 2 are —— less than 9.
4 times 2 are —— more than 5.
$\frac{1}{3}$ of 9 is —— less than 8.
If a boy has 9 nuts in one hand and 5 nuts
in the other, he has — more nuts in
one than in the other.
$\frac{1}{2}$ of 10 is — more than 2.
GRAD. ARITH. I. —3

Tell your teacher stories about:

3 hats and 2 hats.

7 plums and 3 plums.

9 hens less 2 hens.

2 baskets and 7 bas- 7 boys and 2 boys. kets.

10 cents less 5 cents.

3 pears and 6 pears.

6 birds less 4 birds.

3 roses and 6 roses.

4 lemons and 5 lemons.

8 chairs less 3 chairs.

8 spoons less 5 spoons. 6 kittens less 2 kittens.

7 plates less 4 plates.

9 forks and 1 fork.

8 dolls and 2 dolls.

4 cats and 6 cats.

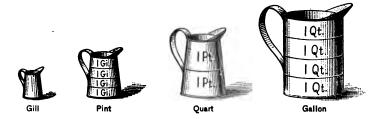
If you had 3 cents, how many more cents would you need to make 9 cents?

If I divide 9 marbles equally among 3 boys, how many marbles will each boy get?

A five-cent piece is called a nickel. If a girl has a nickel, a two-cent piece, and a cent, how much money has she?

If 8 marbles are put in 4 equal piles, how many marbles will there be in each pile?

Robert had 2 nickels. He bought 2 oranges at 3 cents each, and a 2-cent stamp. How much money had he left?



4 gills make 1 pint.

2 pints make 1 quart.

4 quarts make 1 gallon.

How many gills are there in 2 pints?

How many pints are there in 2 quarts?

How many quarts are there in 2 gallons?

How many gills are there in ½ of a pint?

How many pints are there in ½ of a quart?

How many quarts are there in ½ of a gallon?

How many pints are there in 8 gills?

How many quarts are there in 4 pints?

How many quarts are there in 8 pints?

How many gallons are there in 8 quarts?

How much will a pint of milk cost at a cent for 1 gill?

How much will a quart of milk cost at 2 cents a pint?

# Copy and finish:

In 1 gallon there are —— quarts.
In 2 gallons there are —— quarts.
In 1 quart there are —— pints.
In 2 quarts there are —— pints.
In 3 quarts there are —— pints.
In 1 pint there are —— gills.
In 2 pints there are —— gills.
In 4 pints there are —— quarts.
In 6 pints there are —— quarts.
In 8 pints there are — quarts.
At 6 cents a quart, a pint of milk will cost
—— cents.
At 10 cents a pint, ½ of a pint of cream will
cost —— cents.
It will take —— pint measures to hold 3
quarts of water.
It will take —— quart measures to hold 6
pints of milk.
At 8 cents a quart, 1 pint of milk will cost
—— cents, and ½ a pint will cost ——
cents.



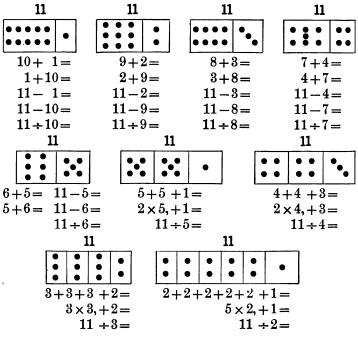


ORAL WORK
Into how many equal parts is this melon
divided?
Each of these parts is called one half $(\frac{1}{2})$ .
How many halves are there in a melon?
How many halves of an apple make a whole
apple?
How many halves are there in this
circle?
Draw a line like this,, divide it
into two equal parts, and tell what each
part is called.
How many halves are there in this tri-
angle?
What part of this square is ?
This is what part of this circle?
How many halves are there in a pie?
How many pies will it take to give one half
of a pie to each of two boys?
How many halves are there in anything?

Finish the answers to these questions:

•
How many halves of an orange make 1
orange?
—— halves of an orange make 1 orange.
How many halves are there in 2 melons?
There are —— halves in 2 melons.
How many halves are there in 3 melons?
There are —— halves in 3 melons.
How many pies will be needed to give 1 of a
pie to each of 4 boys?
There will be needed —— pies.
One peach and ½ of a peach are how many
halves of a peach?
One peach and $\frac{1}{2}$ of a peach are —— halves
of a peach.
How many pears will be needed to give to
each of 2 boys 3 halves of a pear?
There will be needed —— pears.
How many whole pears are there in 8 halves
of a pear?
There are — whole pears.
In 10 halves of an apple there are —— apples.

- If I buy some beans for 6 cents and some peas for 4 cents, how much do I pay for both?
- I pay 6 cents and 4 cents, or —— cents.
- A boy earned 9 cents and spent 7 cents for paper. How many cents had he left?
- He had left 9 cents less 7 cents, or —— cents.
- A little boy had 9 blocks and gave 5 of them to his sister. How many had he left?
- He had left 9 blocks less 5 blocks, or ——blocks.
- I paid 5 cents for tacks and had 3 cents left. How many cents had I at first?
- I had 5 cents and 3 cents, or —— cents.
- A man had 7 lambs and bought 2 more. How many lambs had he then?
- He had 7 lambs and 2 lambs, or —— lambs.
- Tom has 8 roses, and his sister has 2. How many more roses has Tom than his sister?
- He has 8 roses less 2 roses, or —— roses more than his sister.
- 10 eggs less 7 eggs are —— eggs.



10 dots and 1 dot are how many dots?
9 dots and 2 dots are how many dots?
11 dots less 3 dots are how many dots?
7 pencils and 4 pencils are how many pencils?
3 fans and 8 fans are how many fans?
11 doors less 7 doors are how many doors?
How many 4's are there in 11, and how many are left over? how many 3's? how many 2's?

$$10+1=$$
  $8+2=$   $11-2=$   $11-1=$   $9+2=$   $5+4=$   $11-4=$   $11-7=$   $8+3=$   $5+6=$   $11-3=$   $11-9=$   $7+4=$   $6+4=$   $11-5=$   $11-8=$   $6+5=$   $3+8=$   $11-6=$   $11-10=$ 

# Copy and add:

4	${f 2}$	3	4	1	<b>5</b>	7	6
4	<b>5</b>	<b>2</b>	${f 2}$	8	3	3	4
3	4_	<u>6</u>	3	$\frac{2}{-}$	1	1	<u>1</u>
5+	5+1=		5+4-	-3=	2	×5,+	1=
3+	4+2=		6+3-	-2 =	<b>2</b>	×4,+	3=
1+	6 + 3 =		3+8-	<b>-4=</b>	3	$\times 3, +$	2=
4+	3 + 3 =		7 + 4 -	-6 =	5	$\times 2, +$	1=
5+	3 + 3 =		8+3-	-7 <b>=</b>	4	$\times 1.+$	7=

# . Copy, and find the difference:

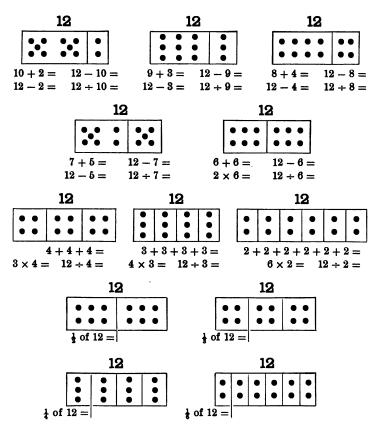
$$7 \quad 6 \quad 5 \quad 7 \quad 8 \quad 8 \quad 9 \quad 10 \quad 10 \quad 11$$

$$\frac{3}{4} \quad \frac{4}{2} \quad \frac{2}{4} \quad \frac{4}{6} \quad \frac{3}{3} \quad \frac{5}{6} \quad \frac{6}{4} \quad \frac{6}{6}$$

$$3 \times 2, +? = 11 \quad 2 \times 1, +? = 11 \quad 8 + 3 = 11 \quad 9 \div 3 = 11 \quad 10 \div 5 =$$

Read at sight:	9 less 6 are —
5 and 4 are —	10 less 2 are —
6 and 3 are —	11 less 5 are —
7 and 2 are —	11 less 7 are —
2 and 8 are —	11 less 3 are —
8 and 3 are —	11 less 6 are —
6 and 5 are —	11 less 2 are —
7 and 4 are —	11 less 4 are —
9 and 2 are —	11 less 8 are —
3  twos and $=11$	5 ones and $=11$
4 twos and $=11$	2 fives and $= 11$
2 threes and $= 11$	7 ones and $=11$
3 threes and $= 11$	3  and  - fours = 11
2 fours and $= 11$	7 and — twos $=11$
2 ones and $5=$	7 ones and $3=$
4 twos and $3=$	1 seven and $4=$
3  twos and  4 =	2 threes and $3=$
2  twos and  7 =	3 threes and $2=$
2 fours and $2=$	1 three and $5=$

- I bought 2 pints of milk from one man and 1 quart from another. How many pints did I buy?
- A farmer has 4 sheep in one field and 7 in another. How many sheep has he?
- If a cow gives 4 quarts of milk each day, in
- 2 days how many quarts will she give? Jennie is 10 years old. Her little brother is
  - has old. How old is her brother?
- At 3 cents each how much will 3 rulers cost?
- How many pints are there in 5 quarts?
- 4 pairs of legs are how many legs?
- How many pairs of legs has a fly?
- How many pairs of legs has a spider?
- How many 3's are there in 6? How many 4's are there in 8?
- How many oranges will it take to give each of 8 boys 1 of an orange?
- If you divide 9 plums equally among 3 boys, how many plums will each boy get?
- A boy picked 10 cherries and gave his sister  $\frac{1}{2}$  of them. How many cherries had each then?



10 dots and 2 dots are how many dots?
12 dots less 2 dots are how many dots?
7 dots and 5 dots are how many? 12 less 7?
9 lamps and 3 lamps are how many lamps?
12 knives less 5 knives are how many knives?

# Copy and add:

# Copy and finish:

$$12 \div 8 = 1$$
, and 4 left over.  
 $12 \div 10 = ---$ , and  $---$  left over.  
 $12 \div 7 = ---$ , and  $---$  left over.

$$12 \div 9 = ---$$
, and  $---$  left over.

$$12 \div 11 = ---$$
, and  $---$  left over.

$$12 \div 4 = ---$$
, and  $---$  left over.

Copy and find the difference:

## LESSON 44

## ORAL WORK

Read	at	$\mathbf{sight}$ :	
------	----	--------------------	--

6 and $5$ are —	9 less 3 are —
4 and 7 are —	11 less 7 are —
5 and 4 are —	10 less 4 are —
10 and 1 are —	11 less 5 are —
7 and 2 are —	10 less 3 are —
3 and 8 are —	8 less 3 are —
6 and 4 are —	10 less 8 are —
8 and 4 are —	11 less 3 are —
7 and 5 are —	12 less 2 are —
10 and 2 are —	12 less 4 are —
3 and 9 are —	12 less 3 are —
11 and 1 are $\rightarrow$	12 less 5 are —
6 and 6 are —	12 less 7 are —
4 and 8 are —	12 less $6$ are $-$
9 and 3 are —	12 less 8 are —
5  twos  and = 12	2 threes and $=12$
4 twos and —=12	2 fives and $=12$
3  twos and $=12$	2  twos and $=12$
3  threes and  = 12	4 ones and $-=12$

2 fours and =12 5 ones and =123 ones and =12 9 ones and =12

Copy and add:

3	<b>5</b>	2	<b>3</b> .	8	7	6	1	2
4	1	6	<b>2</b>	1	<b>2</b>	3	3	4
2	4	3	<b>4</b> .	2	3	2	8	6
			_			_		

# Copy and finish:

 $11 \div 3 = 3$ , and 2 left over.

 $11 \div 4 =$  and  $\longrightarrow$  left over.

 $9 \div 2 =$  and — left over.

 $11 \div 6 =$  \_\_\_\_, and \_\_\_\_ left over.

 $11 \div 5 =$  and  $\longrightarrow$  left over.

 $12 \div 5 =$  and — left over.

 $12 \div 7 = ---$ , and --- left over.

 $12 \div 8 =$  and  $\longrightarrow$  left over.

 $12 \div 9 = --$ , and -- left over.

4 times 2 horses, and 3 horses are —— horses.

3 times 2 books, and —— books are 11 books.

4 times 3 pints of milk are —— pints of milk.

2 pints make 1 quart. 8 pints make ——quarts.

In 1 apple there are 2 halves. In 4 apples there are —— halves.

GRAD, ARITH, I. - 4

We call twelve things a dozen.

A dozen oranges are how many oranges?

A dozen buttons are how many buttons?

How many shoes are 6 pairs of shoes?

How many eggs are a dozen eggs?

How many eggs make  $\frac{1}{2}$  of a dozen?

How many eggs make 1 of a dozen?

How many eggs make 1 of a dozen?

There are 12 months in a year.

How many months make  $\frac{1}{2}$  of a year?

A little girl went to the store with a dozen eggs, but broke 3 of them on the way.

How many were not broken?

How many legs have 2 flies?

2 flies have as many legs as how many boys?

How many 3's are there in 9?

How many 3's are there in 12?

How many more 3's are there in 12 than in 9?

6 lemons are what part of a dozen lemons?

George is 12 years old, and his sister is  $\frac{1}{3}$  as old. How old is his sister?

1 dozen eggs at a cent apiece will cost ——
cents.
$\frac{1}{2}$ of a dozen oranges at 2 cents apiece will
cost —— cents.
If 1 pear costs 2 cents, $\frac{1}{3}$ of a dozen will cost
cents.
At 3 cents apiece 1 of a dozen lemons will
cost —— cents.
It will take —— oranges to give ½ an orange
to each of 12 boys.
It will take —— dozen pint cans to hold as
much water as $\frac{1}{2}$ a dozen quart cans.
1 dozen is — more than $\frac{1}{2}$ a dozen.
If a boy has 5 marbles, he must get —— more
to have a dozen.
At 3 cents apiece I can get — melons for
9 cents.
At 4 cents apiece I can get — melons for
12 cents.
If 2 pears cost 1 cent, 4 pears will cost —
cents.
$\frac{1}{4}$ of a dozen is —— less than $\frac{1}{3}$ of a dozen.

This	line	 is 1	linch	lor	ıg.			
This	one	 			is	2	inches	

long.

This one is 3 inches long.

The second line is how many times as long as the first line?

The length of the first line is what part of the length of the second line?

The third line is how many times as long as the first line?

Count the inches marked off on your ruler, and tell me how many inches long it is.

Cut a strip of paper 12 inches long and 1 inch wide, and mark it off into inches.

A measure 12 inches long is called a foot.

Draw a line on the board, as nearly as you can, 12 inches long. Now measure it to see how near 12 inches long it is.

How many inches make ½ a foot?

Draw a line 12 inches long. Divide it into 3 equal parts. How long is each part?

1 ir	ech	1 i	nch	1 i	nch
l in.	in.	l in.	l in.	⅓ in.	₫ in.

How many half inches make 1 inch?
How many half inches are there in 2 inches?
How many half inches are there in 3 inches?
How many inches are there in  $\frac{1}{3}$  of a foot?
How many inches are there in  $\frac{1}{4}$  of a foot?
How many inches are there in  $\frac{1}{6}$  of a foot?
How many half inches are there in  $\frac{1}{3}$  of a foot?

How many half inches are there in  $\frac{1}{6}$  of a foot? How many half inches are there in  $\frac{1}{2}$  of a foot?

- 4 half inches make how many whole inches?
- 6 half inches make how many whole inches?
- 8 half inches make how many whole inches?
- 12 half inches make how many whole inches?
- in. means the same as inch or inches.
- ft. means the same as foot or feet.
- 2 in. and  $\frac{1}{2}$  of an in. equal how many halves of an in.?

$$9+2=$$
 $9-5=$ 
 $2+10=$ 
 $\frac{1}{2}$  of  $8=$ 
 $4+3=$ 
 $8-2=$ 
 $3+9=$ 
 $\frac{1}{4}$  of  $8=$ 
 $6+2=$ 
 $8 \div 4=$ 
 $8+4=$ 
 $\frac{1}{3}$  of  $9=$ 
 $8+3=$ 
 $6 \div 3=$ 
 $7-5=$ 
 $\frac{1}{2}$  of  $12=$ 
 $6+4=$ 
 $9 \div 3=$ 
 $6-2=$ 
 $\frac{1}{3}$  of  $12=$ 

# Copy and finish:

In one year there are —— months.
In $\frac{1}{2}$ of a year there are — months.
In $\frac{1}{3}$ of a year there are — months.
In $\frac{1}{4}$ of a year there are — months.
$\frac{1}{2}$ of a foot = — in. 4 half inches = — in.
$\frac{1}{4}$ of a foot = — in. 6 half inches = — in.
$\frac{1}{3}$ of a foot = — in. 8 half inches = — in.
$\frac{1}{2}$ of a dozen = — 10 half inches = — in.
$\frac{1}{3}$ of a dozen = — 12 half inches = — in.

# Copy and add:

3	${f 2}$	${f 2}$	4	1	6	1	5	3	4
4	3	${f 2}$	<b>2</b>	<b>5</b>	1	<b>2</b>	<b>2</b>	4	1
1	<b>5</b>	3	3	<b>2</b>	3	3	3	1	<b>2</b>
3	$\frac{2}{-}$	1	3	3	$\frac{2}{-}$	$\frac{6}{}$	2	3	<u>5</u>

SLATE	WORK
There are 4 weeks in 1 there are —— wee	month. In 2 months
In 3 months there are	
In 1 gallon there are -	quarts.
In 1 gallon and 2	-
quarts.	•
In 2 gallons and 3	quarts there are —
quarts.	
In 3. quarts and 1 pint	there are —— pints.
4 apples and 3 apples	and 5 apples are ——
apples.	
In 11 there are —	- threes and —— re-
mainder.	
A boy has a 5-cent pie	ece and a 2-cent piece.
· ·	ould he need to make
12 cents? He wou	ild need —— cents.
Copy and finish:	
9 is — less than 12	2 fours and 3 are —
4 is — less than 9	2 fives and 2 are —
2 is — less than 8	3 threes and 3 are —
10 is — more than 3	3 twos and 5 are —
11 is — more than 7	4 twos and 4 are —

	1 iı	nch	•	1 i	nch	1 inch			
1	in.								
å in.	in.	in.	å in.						

- If an inch is divided into 2 equal parts, each of these parts is called  $\frac{1}{2}$  of an inch.
- If an inch is divided into 4 equal parts, each part is called  $\frac{1}{4}$  of an inch.
- How many half inches are there in  $1\frac{1}{2}$  inches? Count them.
- How many half inches are there in  $2\frac{1}{2}$  inches? Count them.
- How many fourths of an inch are there in 1 inch? Count them.
- How many fourths of an inch are there in ½ of an inch? in 1½ inches?
- How many fourths of an inch are there in 2 inches? in  $2\frac{1}{2}$  inches? in 3 inches?
- How many half inches are there in 6 fourths of an inch? in 8 fourths of an inch? in 10 fourths of an inch?

13
 13

 10 + 3 =
 
$$9 + 4 =$$
 $3 + 10 =$ 
 $4 + 9 =$ 
 $13 - 3 =$ 
 $13 - 4 =$ 
 $13 - 10 =$ 
 $13 - 9 =$ 
 $13 + 10 =$ 
 $13 + 9 =$ 

 13
  $13$ 
 $8 + 5 =$ 
 $7 + 6 =$ 
 $5 + 8 =$ 
 $6 + 7 =$ 
 $13 - 5 =$ 
 $13 - 6 =$ 
 $13 - 8 =$ 
 $13 - 7 =$ 
 $13 + 8 =$ 
 $13 + 7 =$ 

$$5+5+3=$$
  $6+6+1=$   $4+4+4+1=$   $2\times 5, +3=$   $2\times 6, +1=$   $3\times 4, +1=$   $13-5-5=$   $13-6-6=$   $13-4-4-4=$   $13-5=$   $13\div 6=$   $13\div 4=$   $13=4+$   $8+$   $=13$   $2\times 5, +$   $=13$   $13=6+$   $4+$   $=13$   $2\times 6, +$   $=13$   $13=8+$   $2+$   $=13$   $3\times 4, +$   $=13$   $13=9+$   $3+$   $=13$   $5\times 2, +$   $=13$   $13=7+$   $6+$   $=13$   $4\times 3, +$   $=13$ 

# Copy and find the difference:

8	7	.9	11	10	11	12	<b>12</b>	13	13
3	4	<u>6</u>	<u>6</u>	7	_8	<u>6</u>	9	10	<u>12</u>

# Copy and add:

# Copy and finish:

$$13 \div 10 = 1$$
, and 3 left over.

$$13 \div 9 =$$
 and — left over.

$$13 \div 6 = --$$
, and  $--$  left over.

$$13 \div 4 = ---$$
, and  $---$  left over.

$$13 \div 7 = ---$$
, and  $---$  left over.

$$13 \div 5 = ---$$
, and  $---$  left over.

$$13 \div 8 = --$$
, and  $--$  left over.

$$12 \div 5 = --$$
, and  $--$  left over.

$$12 \div 7 = ---$$
, and  $---$  left over.

$$11 \div 3 = ---$$
, and  $---$  left over.

$$11 \div 7 = ---$$
, and  $---$  left over.

$$11 \div 4 =$$
 and  $\longrightarrow$  left over.

Find the values of:

$$3+3+3+3+1$$
 $4 \times 3, +1$ 
 $3+3+3+3+1$ 
 $3+3+3+3+1$ 
 $3+3+3+3+1$ 
 $3+3+3+1$ 
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### ORAL WORK

6 and $4$ are —	9 less 4 are —	$9 \div 3 =$
3 and 7 are —	12 less 3 are —	$12 \div 3 =$
5 and 5 are —	13 less 4 are —	$12 \div 4 =$
6 and $5$ are —	11 less 7 are —	$12 \div 6 =$
4 and 5 are —	11 less 5 are —	$\frac{1}{4}$ of $12 =$
7 and 2 are —	13 less 6 are —	$\frac{1}{3}$ of 9=





How many fourths of an orange are there in  $\frac{1}{2}$  of an orange? in 1 orange? in 2 oranges? How many fourths of an orange are there in  $1\frac{1}{2}$  oranges?

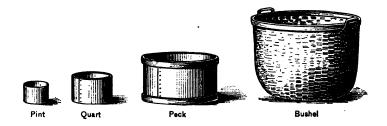
How many whole oranges equal 4 fourths of an orange? how many equal 8 fourths? How many days are there in 10 half days? How many pints are there in 12 half pints?

- If 2 oranges are equally divided among 4 boys, what part of an orange will each boy receive? 2 oranges equal —— halves of an orange?
- If 4 pies are equally divided among 8 men, what part of a pie will each man get?

  4 pies equal —— halves of a pie?
- If 2 pears are divided equally among 4 boys, what part of a pear will each boy get?

  2 pears equal —— fourths of a pear.

2 fives and $= 12$	2 twos	and $=13$
3  twos and $= 13$	4 threes	and $=13$
4 twos and $= 11$	6 ones	and $=13$
3 threes and $= 11$		and $=13$
2 threes and $=13$		and $-=13$
At 2 cents apiece, 5 egg	s will cos	t —— cents.
At 3 cents a pint, 4 pi	nts of m	ilk will cost
cents.		
At 1 cent an inch, a fo	ot of ribb	oon will cost
cents.		
If ½ a gallon of cream of	osts 12 c	ents, 1 quart
will cost —— cents.		_
At 2 cents each, ½ a d	ozen lem	ons will cost
cents.		
3 feet make a yard.	In 2 yar	ds there are
—— feet. In 3 yard	•	
In 4 yards there are		
In 4 yards there are —		
At 12 cents a quart, a p		•
cost —— cents.	JIII OI IO	c cream win
	dallana a	nd a wand af
If a load of coal costs 6		<u>=</u>
silk 3 dollars, they b	otn cost -	—— dollars.



2 pints make 1 quart.8 quarts make 1 peck.4 pecks make 1 bushel.

A quart of peas is how many pints?

A peck of potatoes is how many quarts?

How many pecks equal 2 bushels? 3 bushels?

How many pecks equal ½ of a bushel?

What part of a quart is 1 pint?

If a quart of tomatoes is worth 12 cents, how much is a pint worth?

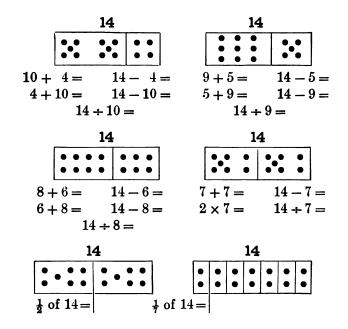
1 peck and 4 quarts are how many quarts?

How many quarts equal 1½ pecks?

How many quarts of beans are there in a peck measure if it is half full?

1 pint is what part of a quart?

1 quart is what part of a peck?



# Copy and add:

3	4	5	2	3	<b>5</b>	7	3
4	<b>2</b>	3	7	8	6	${f 2}$	4
<b>5</b>	7	6	4	3	3	<b>5</b>	7
_	_		_		_		

# Copy and find the difference:

8	9	8	10	11	<b>12</b>	13	14
2	4	3	4	3	7	8	9
<b>12</b>	11	10	13	14	14	13	14
4	7	3	4	6	3	2	5

# Copy and finish:

3 twos and - 2 fives and - 3 threes and - 4 twos and -	-=14 $-=14$	5 twos 3 fours	and — = 14 and — = 14 and — = 14 s and — = 14
2 fours and $3 \times 2$ , $+4 =$	= 14 2 ones -	7 ones	and $=14$ $2 \div 3, + 5 =$
$4 \times 2$ , $+3 =$ $4 \times 1$ , $+6 =$ $2 \times 4$ , $+5 =$ $3 \times 3$ , $+4 =$	2 fours -	+6= -3= 1	$2 \div 4$ , $+ 9 =$ $8 \div 2$ , $+ 8 =$ $0 \div 5$ , $+12 =$ $9 \div 3$ , $+ 8 =$

## ORAL WORK

5 and 8 are —	12 less 5 are —
3 and 7 are —	13 less 7 are —
4 and 8 are —	11 less 3 are —
9 and 2 are —	10 less 6 are —
6 and 7 are —	14 less 5 are —
5 and 9 are —	14 less 3 are —
6 and 8 are —	14 less 11 are —
7 and 6 are —	14 less 9 are —
5 and 7 are —	14 less 7 are —
9 and 4 are —	13 less 8 are —
GRAD, ARITH. I. $-5$	

## Add at sight:

								4	
4	<b>4</b>	3	$\frac{9}{}$	<u>7</u>	<b>4</b> -	<b>2</b>	<u>5</u>	3	7
3	4	3	9	2	10	11	12	11 .	10
8	6	<u>5</u>	<u>5</u>	10	3	2	2	3	4

- Carl has 12 pigeons. Bert has  $\frac{1}{3}$  as many. How many pigeons has Bert?
- It takes 12 yards of silk to make Sallie a dress. It takes \(\frac{1}{4}\) as much to make a dress for her little sister. How many yards are needed for her sister's dress?
- It takes 14 yards of ribbon to trim Maud's dress. It takes only ‡ as much for her doll's dress. How many yards are needed for her doll's dress?
- How much will 2 quarts of green peas cost at 7 cents a quart?
- How many feet are there in 14 half feet?
- A girl bought a yard of lace for 7 cents, and a spool of silk for 5 cents. How much did she pay for both?

 How many 2's are there in 13?

There are six 2's in 13, and 1 remainder.

# In the same way show:

How many 5's there are in 12. How many 3's there are in 11. How many 4's there are in 13. How many 3's there are in 12. How many 6's there are in 14.

# Copy and finish:

$2 \times 6 =$	$3 \times 4 =$	$5 \times 2 =$
$2 \times 7 =$	$4 \times 1 =$	$6 \times 1 =$
$3 \times 1 =$	$4 \times 2 =$	$6 \times 2 =$
$3 \times 2 =$	$4 \times 3 =$	$7 \times 1 =$
$3 \times 3 =$	$5 \times 1 =$	$7 \times 2 =$
$\frac{1}{2}$ of 14	= 5+	- 4,-3=
1/6 of 12	= 7+	5,-6=
$\frac{1}{2}$ of 8	= 8+	-6, -7 =
$\frac{1}{8}$ of 10	= 9+	- 3, -6=
½ of 12	= 2+	-10, -5 =
	$ 2 \times 7 = 3 \times 1 = 3 \times 2 = 3 \times 3 = \frac{1}{2} \text{ of } 14 \\ \frac{1}{6} \text{ of } 12 \\ \frac{1}{2} \text{ of } 8 \\ \frac{1}{6} \text{ of } 10 $	$2 \times 7 = 4 \times 1 = 3 \times 1 = 4 \times 2 = 4 \times 3 = 3 \times 3 = 5 \times 1 = 5 + \frac{1}{6} \text{ of } 12 = 7 + \frac{1}{2} \text{ of } 8 = 8 + \frac{1}{6} \text{ of } 10 = 9 + \frac{1}{6} \text{ of } 10 = 9 + \frac{1}{6} \text{ of } 10 = \frac{1}{6} \text{ of } $

- A farmer raised 13 turkeys and sold 8 of them. How many did he keep?
- There are 7 days in one week. How many days are there in 2 weeks?
- A boy earned 9 cents on Monday and 5 cents on Tuesday, by selling papers. How many cents did he earn in both days?
- How many inches are there in 8 fourths of an inch?
- How many cakes at 2 cents each can you buy for 12 cents?

How many weeks are there in 3 months?

How many feet make a yard?

How many yards are there in 9 feet?

- How many fourths of an apple are there in  $1\frac{1}{2}$  apples?
- Jennie picked 3 quarts of berries and sold them at 4 cents a quart. How many cents did she get?
- A man bought 13 barrels of apples. He kept 6 barrels and sold the rest. How many barrels did he sell?



How many halves are there in 2 and 1 half oranges? in  $1\frac{1}{2}$  oranges?

How many oranges are there in 5 half oranges? How many days are there in 5 half days?

How many half days are there in 2 and 1 half days?

How many half bushels are there in 1 and 1 half bushels?

How many months are there in 10 weeks?

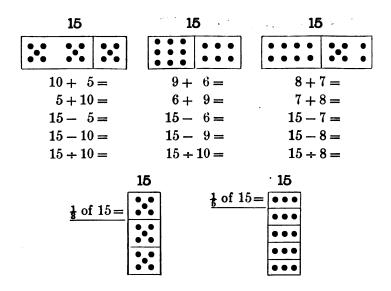
How many pints are there in 5 half pints?

A barrel holds 5 half bushels of apples. How many bushels is that? how many pecks?

A pail holds 5 pints. How many quarts is that?

If you draw a straight line one yard long, how many feet long is it?

How many half feet equal a yard?  $\frac{1}{2}$  a yard? How many feet equal  $\frac{1}{2}$  of a yard?



$$9+6=$$
  $15 \div 5=$   $13+$   $2=$   $15 \div 3=$   $10+5=$   $15-8=$   $4+11=$   $8-3=$   $7+8=$   $15-4=$   $7+$   $6=$   $12-5=$   $11+4=$   $15-6=$   $8+$   $5=$   $13-7=$   $14+1=$   $15-1=$   $12 \div$   $3=$   $15-7=$   $15=$   $9+$   $6+$   $=15$   $3 \times 2, +$   $=15$   $15=$   $7+$   $3+$   $=15$   $3 \times 4, +$   $=15$   $15=$   $15+$   $15=$   $15+$   $15+$   $15=$   $15+$ 

 $15 \div 7 =$ 

$$2 \times 6, +3 =$$
 $2 \times 6, +3 =$ 
 $15 - 6 - 6 =$ 
 $15 - 6 - 3 =$ 
 $15 \div 6 =$ 

$$3 \times 5 =$$
 $15 - 5 - 5 =$ 
 $15 \div 5 =$ 
\$\frac{1}{2}\$ of  $15 =$ 

$$2 \times 6, + - = 15$$

$$2 \times 5, + - = 15$$

$$2 \times 7, + - = 15$$

$$3 \times 4, + - = 15$$

$$4 \times 2, + - = 15$$

$$3 + 4 + - = 15$$

$$5 + 5 + - = 15$$

$$6 + 7 + - = 15$$

$$14 \div 2, + - = 15$$

$$12 \div 6, + - = 15$$

$$9 \div 3, + - = 15$$

$$8 \div 2, + - = 15$$

$$12 \div 2, + - = 15$$

## Read at sight:

8 and 7 are —	14 less 8 are —	$14 \div 7 =$
10 and 5 are —	15 less 6 are —	$14 \div 2 =$
3 and $9$ are —	13 less 9 are —	$15 \div 5 =$
11 and 4 are —	15 less 8 are —	$15 \div 3 =$
13 and 2 are —	14 less 6 are —	$12 \div 3 =$

## Read at sight:

$$\frac{1}{2}$$
 of  $4 = \frac{1}{3}$  of  $6 = \frac{1}{6}$  of  $10 = 5 \times 3 = \frac{1}{4}$  of  $4 = \frac{1}{2}$  of  $8 = \frac{1}{2}$  of  $12 = 4 \times 2 = \frac{1}{3}$  of  $9 = \frac{1}{4}$  of  $8 = 2 \times 6 = 3 \times 4 = \frac{1}{2}$  of  $6 = \frac{1}{2}$  of  $10 = 3 \times 3 = 3 \times 5 = 3$  twos+ — =15

 $2 \text{ twos} + = 15$ 
 $3 \text{ fours} + = 15$ 
 $3 \text{ threes} + = 15$ 
 $2 \text{ fours} + = 15$ 

How many 6's are there in 15?

In 15 there are two 6's, and 3 remainder.

How many 4's are there in 13? 4's in 15?

How many 8's are there in 11? 7's in 12?

How many 5's are there in 14? 3's in 14?

How many 7's are there in 15? 12's in 15?

How many 9's are there in 14? 5's in 15?

- At 5 cents a quart, 3 quarts of nuts will cost —— cents.
- Lulu had 5 paper dolls, Mabel 4, and Mary 6. How many paper dolls had they all? They all had —— paper dolls.
- Eddie earned 15 cents in two days. The first day he earned 8 cents. How many cents did he earn the second day?
- A room is 15 feet long and 12 feet wide. How many yards long and how many yards wide is it?
- If I divide  $2\frac{1}{2}$  apples equally among 5 boys, what part of an apple will each boy get?
- There are 14 doors in my house. 8 of them are downstairs. How many are upstairs?
- A woman gave 7 pinks to one little girl and 6 pinks to another. How many pinks did she give away?
- How much will 5 pencils cost at 3 cents apiece?
- There are 6 cows in one field and 9 in another. How many are there in both fields?

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						4 10			
7	3	10	3	2	14	13	2	5	6
4	6	4	8	<b>12</b>	1	1	11	9	8

## Read at sight:

## Name the difference at sight:

7	10	8	9	5	14	12	11	13	15
<u>5</u>	_5	<u>5</u>	<u>5</u>	<b>5</b>	<u>5</u>	_5	_5	_5	_5
							15		
6	6	6	6	6	6	6	_6	6	6

# Add at sight:

<b>5</b>	5	5							
<b>5</b>	6	4	8	3	9	2	7	1	10
	_								

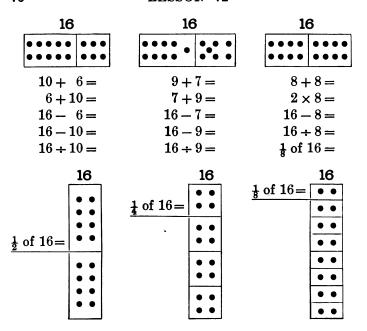
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- COP.	wiiu	waa	•

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3	7	6	7	2	8	1	2	4	2
1	<b>5</b>	<b>2</b>	4	6	<b>2</b>	3	6	1	3
<u>5</u>	$\frac{2}{2}$	3	1	$\frac{3}{}$	4	9	4	<u>2</u>	3
2	3	1	2	3	<b>5</b>	1	3	1	6
7	2	3	1	4	<b>2</b>	4	4	3	4
4	<b>5</b>	2	7	<b>5</b>	1	7	<b>2</b>	7	2
1	4	4	<u>2</u>	1	1	1	3	3	3

# Copy and finish:

$$10-5=$$
  $10+$   $3=$   $15-13=$   $15\div 13=$   $11-6=$   $7+$   $4=$   $15-11=$   $15\div 11=$   $12-7=$   $9+$   $5=$   $15-12=$   $15\div 12=$   $13-8=$   $6+$   $8=$   $15-10=$   $15\div 10=$   $14-9=$   $3+12=$   $15-14=$   $15\div 14=$ 

$$\frac{1}{5}$$
 of  $15 =$ 
 $2 \times - = 14$ 
 $\frac{1}{5}$  of  $15 =$ 
 $3 \times - = 12$ 
 $\frac{1}{2}$  of  $14 =$ 
 $4 \times - = 12$ 
 $\frac{1}{2}$  of  $14 =$ 
 $5 \times - = 15$ 
 $2 + 13 =$ 
 $15 = 6 \times ?, +3$ 
 $3 + 12 =$ 
 $15 = 3 \times ?, +6$ 
 $4 + 11 =$ 
 $15 = 2 \times ?, +5$ 
 $5 + 10 =$ 
 $15 = 4 \times ?, +7$ 



How many quarts are there in 4 gallons?

How many gallons are there in 12 quarts?

How much will 3 pints of milk cost at 8 cents a quart?

How many eggs must be put with a dozen to make 16 eggs?

14 dozen eggs are how many eggs?

At 2 cents for an egg, how much will ½ a dozen cost?

What part of a foot is 6 inches?

What part of a yard is  $1\frac{1}{2}$  feet?

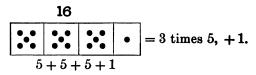
John picked  $2\frac{1}{2}$  quarts of cherries and James picked  $3\frac{1}{2}$  quarts. How many quarts did they both pick?

How many more quarts did James pick than John?

How many oranges must be put with  $\frac{1}{2}$  a dozen to make 16 oranges?

9 peaches and ½ of a dozen peaches are how many peaches?

At 5 cents a quart, how many quarts of berries can you get for 15 cents?



In the same way show:

That 16=4 times 4. That 16=5 times 3, +1. That 16=8 times 2.

# Copy and finish:

- At 8 cents a quart, ½ a gallon of milk will cost —— cents.
- In 15 pints there are —— quarts and —— pint.
- There are 7 days in 1 week. In 14 days there are —— weeks.
- If a boy worked every week day, except one day, for 2 weeks, he worked ——— days.
- John gathered 16 water lilies and gave ½ of them to his sister. How many had he left? He had left —— lilies.
- At 3 cents a yard, I can get —— yards of tape for 16 cents and have —— cent left.

## Read at sight:

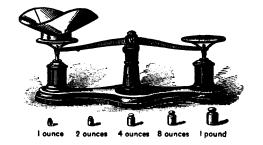
12-5-?=0	15 hens less 8 hens	=
14-9-?=3	13 ducks less 5 ducks	=
9-7+?=10	16 sheep less 9 sheep	=
13-3+?=16	7 hogs and 8 hogs	=
$16 \div 2 + ? = 14$	3 caps and 12 caps	=
$15 \div 5 + ? = 14$	9 desks and 7 desks	=
11-4-?=0	2 rulers and 13 rulers	<b>3</b> =

#### ORAL WORK

Count forward by 2's from 2 to 16.
Count forward by 3's from 3 to 15.
Count forward by 4's from 4 to 16.
Count backward by 2's from 16 to 0.
Count backward by 3's from 15 to 0.
Count backward by 4's from 16 to 0.

# Sight exercise:

3, 7, 6, 8, 2, 4, 9, 1, 10, 5, 11.Add 5 to each number above.Add 4 to each number above.Add 6 to each number above.



Sugar, coffee, tea, and many other things are bought and sold by the pound.

Name five other things that are bought and sold by the pound.

How many of you have seen the storekeeper weigh sugar?

What else have you seen weighed at the store?

What do you see in the picture?

What is the name of the smallest weight you see in the picture?

What is the name of the largest weight?

It takes 16 one-ounce weights to balance the pound weight.

How many eight-ounce weights will it take to balance the pound weight?

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- 16 ounces make 1 pound. How many ounces are there in  $\frac{1}{2}$  of a pound? in  $\frac{1}{4}$  of a pound?
- If you buy  $\frac{1}{2}$  of a pound of tea, how many ounces of tea will you get?
- How many four-ounce weights will it take to balance the pound weight?
- 4 ounces are what part of a pound?
- How many 2's are there in 16? 2 ounces are what part of a pound?
- How much will 2 pounds of sugar cost at 5 cents a pound? How much will 3 pounds cost?
- How much will 1 pound and 8 ounces of beef cost at 8 cents a pound?
- At 2 cents an ounce, how much will 8 ounces of ginger cost?

Name four things that are sold by the dozen.

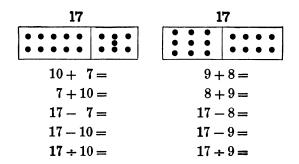
Name four that are sold by the gallon.

Name five that are sold by the bushel.

Name five that are sold by the yard.

16 quarts equal how many pecks?

- How much will 16 eggs cost at 12 cents a dozen? They will cost —— cents.
- How much will 1½ dozen nutmegs cost at a cent apiece? They will cost —— cents.
- At 2 cents apiece, how many bananas can you buy for 16 cents?
- How much will 2 quarts of cider cost at 14 cents a gallon?
- John picked ½ a bushel of blackberries. How many pecks did he pick? how many quarts?
  - $\frac{1}{2}$  a bushel = pecks.
  - $\frac{1}{2}$  a bushel = quarts.
- 16 quarts equal how many gallons?



In the same way show:

That 17 = 3 times 5, +2. That 17 = 4 times 4, +1. That 17 = 5 times 3, +2. That 17 = 8 times 2, +1.

$$17=10+$$
 —  $13+$  —  $=17$   $17 8=$ 
 $17=$   $8+$  —  $15+$  —  $=17$   $17 9=$ 
 $17=$   $9+$  —  $8+$  —  $=17$   $17 7=$ 
 $17=$   $7+$  —  $14+$  —  $=17$   $17 10=$ 
 $17=11+$  —  $16+$  —  $=17$   $17 12=$ 
 $17=13+$  —  $12+$  —  $=17$   $17 11=$ 

## Read at sight:

$$7+8=$$
  $7+6=$   $4+9=$   $7+10=$   $6+5=$   $8+5=$   $2+11=$   $9+5=$   $4+8=$   $6+4=$   $5+7=$   $10+7=$   $2+9=$   $7+3=$   $9+7=$   $4+11=$   $7+3=$   $8+5=$   $3+13=$   $2+15=$   $12+4=$   $5+11=$   $6+9=$   $12+3=$   $14+2=$   $13+3=$   $8+6=$   $11+6=$   $12+5=$   $3+11=$   $14+3=$   $8+9=$ 

## Read at sight:

$$10-8=$$
  $11-6=$   $9-8=$   $11-4=$ 
 $8-7=$   $10-5=$   $9-7=$   $11-5=$ 
 $9-6=$   $8-4=$   $10-6=$   $8-6=$ 
 $8-5=$   $10-7=$   $9-5=$   $12-7=$ 
 $9-4=$   $8-8=$   $10-4=$   $11-8=$ 
 $12-4=$   $13-8=$   $15-4=$   $17-8=$ 
 $12-5=$   $12-7=$   $17-5=$   $17-7=$ 
 $12-6=$   $14-6=$   $13-6=$   $16-6=$ 
 $13-7=$   $15-5=$   $15-7=$   $16-5=$ 
 $12-8=$   $13-4=$   $15-8=$   $14-4=$ 

$$2 \times 3$$
,  $+?=14$   $16 \div 4$ ,  $+?=13$   $3 \times 4$ ,  $+?=16$   $15 \div 5$ ,  $+?=14$   $4 \times 2$ ,  $+?=15$   $14 \div 2$ ,  $+?=17$   $2 \times 6$ ,  $+?=17$   $12 \div 4$ ,  $+?=15$   $3 \times 3$ ,  $+?=17$   $16 \div 8$ ,  $+?=17$   $17-6-6-5=$   $17-7-7-3=$   $17-8-8-1=$ 

- If a boy spent 9 cents and had 8 cents left, he must have had —— cents at first.
- There are —— gallons and —— quarts in 17 quarts.
- In 17 quarts there are —— pecks and —— quart.
- In 17 pecks there are —— bushels and —— peck.
- At 8 cents a pound —— pounds of soap can be bought for 16 cents.
- At 6 cents a quart 2 quarts and 1 pint of beans will cost —— cents.
- There is foot and inches in 17 inches.
- There are —— yards and —— feet in 17 feet.

- Anna is 12 years old. In how many years will she be 17 years old?
- James is 17 years old. His little sister is 8 years old. How old was James when his sister was 6 years old?
- 3 little girls and 1 little boy went out to gather nuts. The little girls each got 4 quarts, and the little boy 5 quarts. How many quarts did they all get?
- There were 11 roses on a bush yesterday.

  To-day there are 17 on it. How many more roses are there on the bush to-day than yesterday?
- 8 pairs of gloves are how many gloves?
- Nettie has a rope that is 5 yards and 2 feet long. How many feet long is it?
- How many pairs of legs have 2 spiders?
- A boy picked 9 bushels of apples from one tree, and 8 bushels from another. How many bushels did he pick from both trees?
- 8 feet were cut from a rope 17 feet long. How many feet were left?

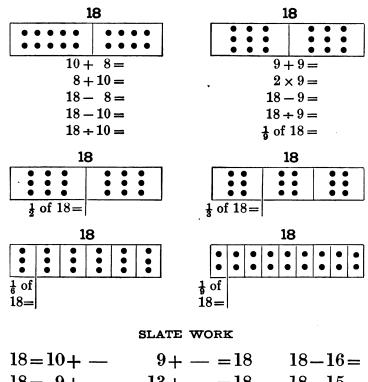
	1	1	
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6	9	8	6	8	7	9	8
7	<b>5</b>	<b>2</b>	4	7	3	1	3
3	3	<u>6</u>	<u>7</u>	$\frac{2}{}$	6	7	$\frac{6}{6}$
1	3	4	3	<b>5</b>	3	2	4
4	4	3	3	4	<b>5</b>	4	4
4	<b>2</b>	<b>2</b>	3	3	<b>2</b>	4	3
3	5	1	6	1	3	3	3
<b>5</b>	1	6	2	4	4	3	3
_				-	_		_

$$16 \div 7 = 2$$
, and 2 remainder

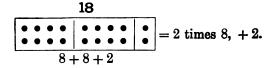
$$17 \div 8 = 17 \div 5 = 12 \div 5 = 13 \div 5 = 17 \div 9 = 16 \div 9 = 17 \div 6 = 15 \div 4 = 13 \div 6 = 13 \div 6 = 11$$

$$\begin{array}{llll} \frac{1}{6} \text{ of } 12, \ + \ 9 = 11 \\ \frac{1}{4} \text{ of } 16, \ + 13 = & \frac{1}{4} \text{ of } 12, \ + \ 8 = \\ \frac{1}{4} \text{ of } 14, \ + 12 = & \frac{1}{8} \text{ of } 16, \ + 15 = \\ \frac{1}{3} \text{ of } 15, \ + 11 = & \frac{1}{2} \text{ of } 16, \ + 5 = \\ \frac{1}{3} \text{ of } 9, \ + 14 = & \frac{1}{2} \text{ of } 10, \ + 12 = \\ 12 \div 4, + \ 9 = & 4 \times 3, + \ 5 = \\ 16 \div 8, + 12 = & 2 \times 8, - \ 8 = \\ 15 \div 3, - \ 3 = & 3 \times 5, - \ 9 = \\ \end{array}$$



$$18 = 9 + 13 + - = 18$$
 $18 - 15 =$ 
 $18 = 7 + 11 + - = 18$ 
 $18 - 14 =$ 
 $18 = 6 + 8 + - = 18$ 
 $18 - 13 =$ 
 $18 \div 10 =$ 
 $13 + 5 =$ 
 $18 \div 6 =$ 
 $\frac{1}{2}$  of  $18 =$ 
 $18 \div 7 =$ 
 $11 + 6 =$ 
 $18 \div 2 =$ 
 $\frac{1}{3}$  of  $18 =$ 
 $18 \div 8 =$ 
 $14 + 4 =$ 
 $18 \div 3 =$ 
 $\frac{1}{6}$  of  $18 =$ 
 $18 \div 5 =$ 
 $15 + 3 =$ 
 $18 \div 9 =$ 
 $\frac{1}{6}$  of  $18 =$ 

Read at sight:



In the same way show:

That 18=2 times 7, +4.

That 18=3 times 6.

That 18=3 times 5, +3.

That 18 = 4 times 4, +2.

That 18=6 times 3.

That 18=9 times 2.

$18 \div 5 = 3$ , and 3 remainder	$\frac{1}{2}$ of 18, $+7 = 16$
18÷ 7=	$\frac{1}{4}$ of 16, $+10=$
18÷ 8=	$\frac{1}{6}$ of 18, $+15$ =
18÷ 4=	$\frac{1}{9}$ of 18, $+14=$
$18 \div 10 =$	$\frac{1}{2}$ of 16, $+9$
$18 \div 12 =$	$\frac{1}{7}$ of 14, $+13=$

## Add:

<b>5</b>	<b>2</b>	6	2	8	6	7	3	4
4	7	<b>2</b>	4	3.	2	3	8	<b>5</b>
			4					
5	3	7	8	4	4	<b>5</b>	4	5
_								_

$$7+7+4=$$
 $2 \times 7, +4=$ 
 $3 \times 6=$ 
 $3 \times 5, +3=$ 
 $18-7-7=$ 
 $18-6-6=$ 
 $18 \div 6=$ 
 $18 \div 5=$ 

## Subtract:

18 _ <del>9</del>				
18 12				

#### ORAL WORK

## Sight exercise:

7, 4, 12, 9, 11, 6, 8, 13, 5, 10, 14
Subtract 2 from each of the above numbers.
Subtract 3 from each of the above numbers.
Subtract 4 from each of the above numbers.
Add 2 to each number above.
Add 3 to each number above.
Add 4 to each number above.

Show by dots on cards how many 3's there are in the following: 6, 9, 12, 15, 18.

Show six ways of composing each of the following numbers:

$$11=3+3+3+2$$
,  $=3\times3$ ,  $+2$ ,  $=4+4+3$ ,  $=2\times4$ ,  $+3$ ,  $=5+5+1$ ,  $=2\times5$ ,  $+1$ .

$$13=4+4+4+1$$
,  $=3\times4$ ,  $+1$ ,  $=\cdots+\cdots+\cdots$ ,  $=\cdots\times\cdots$ ,  $+\cdots$ ,  $=\cdots+\cdots+\cdots$ ,  $=\cdots\times\cdots$ ,  $+\cdots$ 

$$17 = \cdots + \cdots + \cdots$$
,  $= \cdots \times \cdots$ ,  $+ \cdots$ ,  $= \cdots + \cdots + \cdots$ ,  $= \cdots \times \cdots$ ,  $+ \cdots$ ,  $= \cdots \times \cdots$ ,  $+ \cdots$ ,  $= \cdots \times \cdots$ ,  $+ \cdots$ 

$$15=\cdots+\cdots+\cdots$$
,  $=\cdots\times\cdots$ ,  $+\cdots$ ,  $=\cdots+\cdots+\cdots$ ,  $=\cdots\times\cdots$ ,  $+\cdots$ ,  $=\cdots+\cdots+\cdots$ ,  $=\cdots\times\cdots$ 

$$18 = 9 + 9$$
,  $= 2 \times 9$ ,  $= \cdots + \cdots + \cdots$ ,  $= \cdots \times \cdots$ ,  $+ \cdots$ ,  $= \cdots + \cdots + \cdots$ ,  $= \cdots \times \cdots$ ,  $+ \cdots$ .

# Copy and finish:

In 11 there are 3 threes and 2 over; ——fives and ——over.

In 13 there are —— fours and —— over.

In 17 there are —— sevens and —— over.

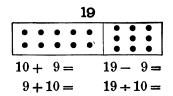
In 18 there are —— eights and —— over.

In 15 there are —— sixes and —— over.

In 14 there are —— sixes and —— over.

18 is — more than 10, and — more than 5.

4 is —— less than 11, and —— less than 16.



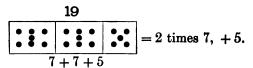
## Read at sight:

 $14 \div 3 = ?$  14 divided by 3 equals 4, and 2 over.

$$4 \times 3$$
,  $+7 = ?$  4 times  $3 = 12$ ; 12 plus \*  $7 = 19$ .

$$3 \times 2$$
,  $+10 =$   $7 \times 1$ ,  $+11 =$   $8 \times 1$ ,  $+9 =$   $6 \times 2$ ,  $+3 =$   $4 \times 2$ ,  $+10 =$   $2 \times 8$ ,  $+3 =$   $2 \times 4$ ,  $+9 =$   $5 \times 1$ ,  $+12 =$   $2 \times 7$ ,  $+4 =$   $2 \times 5$ ,  $+7 =$   $3 \times 3$ ,  $+9 =$   $5 \times 2$ ,  $+9 =$   $7 \times 2$ ,  $+5 =$   $3 \times 5$ ,  $+4 =$   $5 \times 3$ ,  $+3 =$ 

<sup>\*</sup> plus is the word for + and means and.



In the same way show:

That 3 times 
$$6, +1 = 19$$
.

That 3 times 
$$5, +4 = 19$$
.

That 4 times 
$$4, +3 = 19$$
.

That 6 times 
$$3, +1 = 19$$
.

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## SLATE WORK

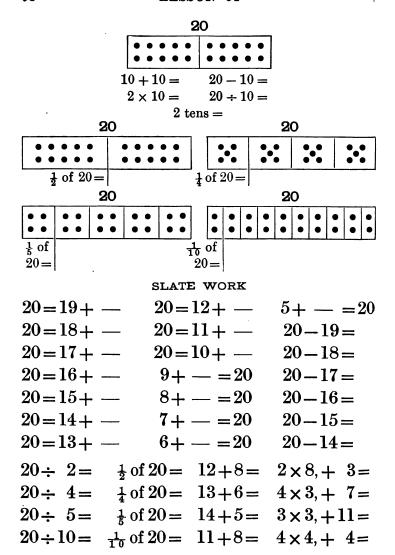
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5 4	5 1	<b>5 2</b>	<b>5</b> <b>3</b>	5 4	5 5	5 6	5 7	<b>5</b> 8	5 9
3	9	8	7	6	<b>5</b>	4	3	<b>2</b>	. 1
<u>6</u>	1	$\frac{2}{2}$	<u>3</u>	<u>4</u>	3	<u>4</u>	<u>4</u>	3	<u>2</u>
4	2	6	2	4	6	5	9	7	1
4	<b>2</b>	6	<b>2</b>	4	3	4	3	3	<b>2</b>
3	<b>5</b>	3	7	4	6	<b>5</b>	<b>2</b>	7	9
3	<u>5</u>	3	7	7	3	4	5	<b>2</b>	7

# Subtract:

GRAD. ARITH. I. -7

19	18	17			14	13	12	9	8
_8	_7	<u>6</u>	_5	_4	_3	_2	_1	_8	<u>7</u>
17	13	16	18	12	15	19	14	19	18
12	_9	$\frac{13}{}$	_9	_5	<u>6</u>	$\frac{12}{}$	<u>6</u>	8	<u>7</u>
$3 \times 4 =$		$6 \times 3 =$			$2 \times 5 =$		5	5×?=	= 15
$5 \times 3 =$		$7 \times 2 =$			$2 \times 6 =$		19 - ? = 11		=11
$6 \times 2 =$		$8 \times 2 =$			$4 \times 4 =$		11 + ? = 17		
$3 \times 3 =$		$2 \times 7 =$			$9 \times 2 =$		$18 \div ? = 6$		
$4 \times 2 =$		$3 \times 5 =$			$2 \times 9 =$		8+?=19		



## Read at sight:

12 and 7 are —	5 and 12 are —
13 and 6 are —	19 and 1 are —
15 and 5 are —	20  less  10 =
14 and 6 are —	20  less  9 =
8 and 11 are —	20  less  8 =
17 and 2 are —	20  less  7 =
16 and 4 are —	20 less 6 =
3 and 17 are —	20  less  5 =

 $20 \div 3 = ?$  20 divided by 3 equals 6, and 2 over.

$$20 \div 6 =$$
  $20 \div 12 =$   $20 \div 19 =$   $20 \div 7 =$   $20 \div 14 =$   $20 \div 17 =$   $20 \div 8 =$   $20 \div 13 =$   $20 \div 20 =$   $20 \div 9 =$   $20 \div 15 =$   $20 \div 5 =$   $20 \div 10 =$   $20 \div 17 =$   $20 \div 4 =$ 

Count forward by 2's from 2 up to 20.

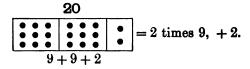
Count forward by 3's from 3 up to 18.

Count forward by 4's from 4 up to 20.

Count backward by 2's from 20 to 0.

Count backward by 3's from 18 to 0.

Count backward by 4's from 20 to 0.



In the same way show:

That 
$$20=2$$
 times 8, +4.  
That  $20=2$  times 7, +6.  
That  $20=3$  times 6, +2.  
That  $20=4$  times 5.  
That  $20=5$  times 4.

10 cents make 1 dime. 5 cents make a half-dime.

How many five-cent pieces make a dime?
How many two-cent pieces make a dime?
If you have a half-dime and 2 two-cent pieces,
how many cents have you?

- John has a dime, a half-dime, and a two-cent piece. How much money has he?
- Rob has a dime, a half-dime, a two-cent piece, and a cent. How much money has he?
- If he buys 8 two-cent stamps, how much money will he have left?
- I bought 3 loaves of bread, and gave the baker 2 dimes. He gave me back five cents. What was the cost of each loaf of bread?
- I have 2 dimes in two-cent pieces. How many two-cent pieces have I?
- At 2 cents each, how many oranges can I buy for 2 dimes?
- How many pounds of sugar, at 5 cents a pound, can you buy with a dime, a nickel, a two-cent piece, and 3 cents?

- If 2 oranges cost 5 cents, how much will 4 oranges cost?
- When 2 oranges cost 5 cents, how many oranges can be bought for a dime? How many can be bought for 2 dimes?
- If I can get 3 plums for a cent, how many plums can I get for half a dime?
- In a schoolroom there are 5 windows, and 4 panes in each window. How many panes are there in the 5 windows?
- A boy earned 20 cents and paid  $\frac{1}{5}$  of it for a top. How much did he pay for the top?
- How many ounces are there in ‡ of a pound?
- A farmer had 20 sheep in one field and  $\frac{1}{4}$  as many in another field. How many more sheep had he in the first field than in the second?
- A boy paid 15 cents for a copy book, and \(\frac{1}{3}\) as much for a penholder and pens. How much did he pay for all?
- How much will 3 eggs cost if  $\frac{1}{2}$  a dozen cost 18 cents?

- If half a dozen eggs cost 5 cents, how many dozen can be bought for 2 dimes?
- How many feet long is a yardstick?
- How many feet are there in 6 yards?
- How many pints are there in a quart? How many quarts are there in a gallon? How many pints are there in a gallon?
- How many pecks are there in a bushel? How many are there in 5 bushels?
- At  $5\frac{1}{2}$  cents a pound, how many pounds of sugar can be bought for 11 cents?
- A peck is 8 quarts. What part of a peck is 2 quarts? 4 quarts?
- A score is 20. How many 5's make a score? From 20 chickens 14 were sold. How many were left?
- A little boy has 13 cents in his bank. If he puts in a nickel more, how many cents will he then have in his bank?
- If a pound of cheese costs 14 cents and a pound of rice 5 cents, how much will both cost?

#### SLATE WORK

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